



**ERIE COUNTY**

**Note: new application fee**

**PROMOTIONAL EXAM**

Please refer to our internet address at: [www.erie.gov](http://www.erie.gov)

**A NON-REFUNDABLE \$20.00 PROCESSING FEE MUST ACCOMPANY EACH APPLICATION  
(CHECK OR MONEY ORDER ONLY – PAYABLE TO: ERIE COUNTY DEPARTMENT OF PERSONNEL)**

## **SENIOR ENGINEERING DRAFTSWORKER**

**NO. 78-337**

**ERIE COUNTY WATER AUTHORITY**

**\$46,288 - \$51,388**

THIS EXAMINATION IS OPEN TO ALL QUALIFIED EMPLOYEES OF THE ERIE COUNTY WATER AUTHORITY. The eligible list resulting from this examination will be used to fill future vacancies.

The eligible list resulting from this examination will not supersede currently existing promotional eligible lists for this title, if any. The duration of all promotional eligible lists is four years from date of establishment unless otherwise indicated.

**QUALIFYING EXPERIENCE FOR TAKING THE TEST:** Candidates must be permanently employed in the competitive class and must be serving and have served continuously on a permanent or contingent permanent basis in the competitive class for 12 months immediately preceding the date of the written test as an Engineering Draftsworker.

Persons who are currently employed under Section 55a, New York State Civil Service Law, and who meet all the above eligibility requirements in the non-competitive rather than competitive class may compete in this examination.

**DUTIES:** A *Senior Engineering Draftsworker* performs more difficult and complex sub-professional engineering work in the field or office; prepares drawings for water related projects from data secured from files or the field; writes specifications and prepares contract documents for new projects; prepares estimates for new projects; may supervise or perform as a member of a field party in gathering data for new design or laying out for new construction; may supervise or perform as a member of a field party in gathering data for the purpose of mapping the water system and locating leaks with various leak detection equipment; performs other related duties in the drafting, mapping and records or inspections sections in the office or field.

**VETERANS: PROOF OF SERVICE MUST BE SUBMITTED BEFORE LIST IS ESTABLISHED  
TO RECEIVE ADDITIONAL POINTS. (See application for more information.)**

**NOTICES TO APPEAR FOR THE EXAMINATION ARE MAILED APPROXIMATELY ONE WEEK PRIOR TO THE EXAMINATION DATE**

**EXAMINATION DATE**

**OCTOBER 21, 2006**

**SEE  
REVERSE  
SIDE**

**APPLICATIONS MUST BE  
POSTMARKED BY**

**SEPTEMBER 20, 2006**

**SCOPE OF EXAMINATION:** The written test is designed to test for knowledge, skills, and/or abilities in such areas as:

1. **MATHEMATICS, INCLUDING ALGEBRA, GEOMETRY AND TRIGONOMETRY** - These questions test for the ability to read, analyze and solve technician-level written problems involving addition, subtraction, multiplication, division, algebraic equations, geometric concepts and figures, and basic trigonometric functions.
2. **INTERPRETATION OF PLANS AND SPECIFICATIONS, INCLUDING QUANTITY ESTIMATES** - These questions test for the ability to read and analyze various types of construction drawings and technical written material, and for the ability to calculate the amount of materials needed for portions of construction projects by reading and interpreting engineering drawings and technical presentations. Knowledge of estimating techniques and how construction materials are utilized in specified projects will be required.
3. **BASIC SURVEYING PRINCIPLES AND PRACTICES, INCLUDING COMPUTATIONS** - These questions test for knowledge of the elementary concepts, procedures and computations involved in performing surveys of various construction projects and land areas.
4. **PRINCIPLES AND KNOWLEDGE RELATED TO COMPUTER-ASSISTED DRAFTING (CAD) TECHNOLOGY** - These questions test for knowledge of the basic concepts, terminology and proper procedures to use when creating technical drawings utilizing computerized drafting software.
5. **CONSTRUCTION AND MAINTENANCE OF WATER DISTRIBUTION SYSTEMS AND FIRE HYDRANTS, INCLUDING SAFETY PRACTICES** - These questions test for knowledge of the proper methods, materials and equipment used and the safety issues involved in the installation, repair and operation of waterlines, fire hydrants and related appurtenances.
6. **COMPUTER-ASSISTED MAPPING, INCLUDING BASIC GEOGRAPHIC INFORMATION SYSTEM (GIS) APPLICATIONS** - These questions test for the basic concepts, terminology and proper procedures to use when creating and revising various types of maps and site plans utilizing GIS and computerized mapping software.
7. **SUPERVISION** - These questions test for knowledge of the principles and practices employed in planning, organizing, and controlling the activities of a work unit toward predetermined objectives. The concepts covered, usually in a situational question format, include such topics as assigning and reviewing work; evaluating performance; maintaining work standards; motivating and developing subordinates; implementing procedural change; increasing efficiency; and dealing with problems of absenteeism, morale, and discipline.

**NOTICE TO CANDIDATES:** It is **recommended** that candidates use a quiet, hand held, solar or battery powered calculator. Devices with typewriter keyboards, "Spell Checkers", "Personal Digital Assistants", "Address Books", "Language Translators", "Dictionaries", or any similar devices are prohibited. You may not bring books or other reference materials.

**NOTICE TO CANDIDATES WHO ARE ALSO TAKING ANOTHER CIVIL SERVICE EXAM(S) ON THIS DATE (See Below)**  
**(IF YOU ARE TAKING 2 OR MORE ERIE COUNTY EXAMS ON THIS DATE IT IS NOT NECESSARY TO CALL)**

## INFORMATION FOR PROMOTION CANDIDATES

Unless otherwise indicated, the eligible list resulting from this examination will have a duration of four years and will not supersede existing promotional lists, if any.

**RATINGS REQUIRED:** Test is rated on a scale of 100 with a passing mark at 70. Test instructions may further divide the tests into parts and set minimum standards for each part.

Points will be added to scores of candidates who achieve a passing mark as follows:

Seniority: For each year of service in the classified service:

Less than 1 year.....	0 points
1 year up to 6 years.....	1 point
Over 6 years up to 11 years.....	2 points
Over 11 years up to 16 years.....	3 points
Over 16 years up to 21 years.....	4 points
Over 21 years.....	5 points

**VETERANS:** Disabled and non-disabled veterans as defined in Section 85, New York State Civil Service Law, will have 5 and 2.5 points, respectively added to their earned scores if successful in the examination. You must claim these credits when you file application but you have an option to waive them any time prior to appointment. If you have already used these credits for a permanent position in NYS, you may not claim them again.

In conformance with section 85-a of the Civil Service Law, **CHILDREN OF FIREFIGHTERS AND POLICE OFFICERS KILLED IN THE LINE OF DUTY** shall be entitled to receive an additional ten points in a competitive examination for original appointment in the same municipality in which his or her parent has served. If you are qualified to participate in this examination and are a child of a firefighter or police officer killed in the line of duty in this municipality, please inform this office of this matter when you submit your application for examination. A candidate claiming such credit has a minimum of two months from the application deadline to provide the necessary documentation to verify additional credit eligibility. However, no credit may be added after the eligible list has been established.

**APPLYING FOR EXAMINATIONS IN MULTIPLE JURISDICTIONS ON SAME DATE.** If you have applied for any other Civil Service exams for employment with New York State or any other local government jurisdiction, you must make arrangement to take all the exams at one test site.

If you have applied for both State and Local government exams, you must make arrangements to take all your exams at the State exam center by calling (518)457-7022 no later than two weeks before the test date.

If you have applied for other local government exams, call or write each Civil Service Agency to make arrangements. You must make your request for these arrangements no later than three weeks before the date of the exams. You must notify all local government civil service agencies with whom you have filed an application of the which you wish to take your exam(s). For this exam call (716)858-7509 or write Erie Co. Personnel Dept., 95 Franklin St, Buffalo, NY 14202.

**MILITARY STATUS:** Active duty military personnel may file an application for this exam. A special military make-up examination will be conducted for any member of the armed forces of the United States who has duly filed a timely application but who was deprived of the opportunity to compete in the scheduled exam due to active military duty. Special conditions apply to these requests and may be reviewed at the Erie County Department of Personnel.

**ADMISSION TO EXAMINATION:** Notice to appear for the test will be conditional as review of application for minimum requirements may not be made until after the written test. Call or write this Department if you have not received your notice 3 days before the date of the test. You may not be admitted to the examination room without official notice.

**SPECIAL ARRANGEMENTS:** Applicants whose religious beliefs prevent their taking examinations before sundown on Saturday and physically handicapped candidates who require special examination facilities should so inform the Erie County Department of Personnel, by a separately mailed letter at the earliest possible date before the test.

**TRAINING AND EXPERIENCE:** If a subject of the examination, training and experience may not be rated if all passing candidates are expected to be immediately reachable for appointment. If rated, training and experience will be based on the statements in your application subject to verification. If this examination includes a qualifying written test, candidates admitted to the test will have conditional approval only. Final decision regarding the qualifications of candidates rests with the New York State Department of Civil Service.

**ELIGIBILITY FOR EXAMINATION:** You may take the examination if you meet the following requirements: (a) Meet the qualifications as printed in the announcement; (b) you have been separated from the service and permanently reemployed within one year, (c) your name is on a preferred eligible list.

**NOTICE:** Any person, otherwise meeting the requirements for an examination, who is laid off from any agency for which the examination is being held, and whose name is presently on a preferred list is eligible to compete in the examination. When completing their applications such persons should be title and location of their last permanent Civil Service employment.

**APPLICATION FORMS:** You may obtain these forms in person at the Erie County Personnel Department, Rath County Office Building, 95 Franklin Street, Buffalo. Forms are also available in the libraries and at Town, Village and School District administrative offices.

**\*\*IMPORTANT APPLICATION FEE - READ CAREFULLY\*\***

A \$20 filing fee is required for this exam. The required fee must accompany your application. Send or bring check or money order made payable to Erie County Personnel Department and write the examination number(s) on your check or money order. Do not send or bring cash, as the County cannot be responsible for cash payment. As no refund will be made, you are urged to compare your qualifications carefully with the requirements for admission and file only for those examinations for which you are clearly qualified.